

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**CORRECTED VERSION**

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 July 2003 (10.07.2003)

PCT

(10) International Publication Number  
**WO 2003/055575 A1**

- (51) International Patent Classification<sup>7</sup>: **B01D 45/16**, 45/12, B04C 5/26 Rijswijk (NL). **TJEENK WILLINK, Cornelis, Antonie [NL/NL]**; Volmerlaan 8, NL-2288 GD Rijswijk (NL).
- (21) International Application Number: PCT/EP2002/014864 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 31 December 2002 (31.12.2002) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 01205147.0 31 December 2001 (31.12.2001) EP
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- Published:**  
— *with international search report*
- (48) Date of publication of this corrected version: 21 May 2004
- (15) Information about Correction:  
see PCT Gazette No. 21/2004 of 21 May 2004, Section II

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: MULTISTAGE FLUID SEPARATION ASSEMBLY AND METHOD

(57) **Abstract:** A multistage fluid separation assembly is disclosed, which comprises: one or more primary gas cooling devices (1) which each have liquefied and/or solidified condensables enriched fluid outlet (8); and a secondary fluid separation vessel (2) having a tubular vertical section (10), which vessel (2) is connected to the condensables enriched fluid outlet (8) of said primary gas cooling device(s)(1) via a tangential conduit (3) which injects said condensables enriched fluid tangentially into the tubular section (10) such that a tertiary stream (17) of liquefied and/or solidified condensables is induced by gravity and centrifugal forces to swirl in downward direction alongside the inner surface of the tubular section (10) into a liquid collecting tank (19) at or near the bottom of the vessel (2) for collecting a tertiary mixture of liquefied and/or solidified condensables, which tank (19) is provided with one or more heaters (20) for heating the tertiary mixture to reduce the amount of solidified condensables, such as wax, paraffins and hydrates, and with one or more liquid outlets (23, 26).

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 02/14864

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01D45/16 B01D45/12 B04C5/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D B04C C10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 825 423 A (SCHEIRMAN ET AL) 4 March 1958 (1958-03-04) column 1, line 61 -column 3, line 54 ---	1-5, 12, 16, 17
A	DATABASE WPI Section Ch, Week 198842 Derwent Publications Ltd., London, GB; Class J01, AN 1988-298406 XP002241109 & SU 1 386 248 A (SARAT SOYUZGАЗAUTOM), 7 April 1988 (1988-04-07) abstract ---	1, 17
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		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*&\* document member of the same patent family

Date of the actual completion of the international search

14 May 2003

Date of mailing of the international search report

27/05/2003

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/14864

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			ZA	9805706 A	27-01-1999

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International Application No  
PCT/EP 02/14864

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 01194 A (SHELL) 14 January 1999 (1999-01-14) cited in the application page 5, line 28 -page 7, line 35 -----	17